

CSI Web Adventures

Name _____

Go to <http://forensics.rice.edu/> and click the section for “Case One: Rookie Training” to find the answers to complete this worksheet. Answer the Quick Poll question and click “Play game”.

1. Go to the “Forensic Biology” section and choose “Follow Greg” to answer these questions.

A. What is DNA? Answer these questions as you work through this section.

What does the abbreviation DNA represent? _____

Where is the DNA located in a cell? _____

Choose the three correct about DNA.

How can forensic scientists use DNA in a crime? _____

Which suspect matches the sample from the crime scene? _____

B. What is a DNA Profile? Answer these questions as you work through this section.

Complete: A DNA profile is a _____ of one person’s genetic information.

What does CODIS represent? _____

How many markers are used to make a DNA profile? _____

C. How do you process DNA? Answer these questions as you work through this section.

What are the four steps in processing DNA? _____

What is used to collect a DNA sample from Greg? _____ Where? _____

What technique is used to copy the DNA markers? _____

What does the Genetic Analyzer do? _____

Follow the steps to process the DNA sample.

Click Begin Analysis and follow the steps. Which DNA profile matched the sample? _____

Complete the Exit Exam.

2. Go to the “Toxicology Lab” section and choose “Learn About The Lab” to answer these questions.

What do forensic toxicologists do? _____

How much of each is needed for testing? _____ of vitreous humor, _____ of blood, and _____ of urine

What else might be tested? _____ or _____

Sort the evidence into the three boxes. What was your time? _____

What instrument is used to screen for alcohol? _____

What test can tell us if certain drugs are in a sample? _____

What does the GC/MS instrument do? _____

Complete: Every _____ has its own specific pattern of _____.

What chemicals were found in the blood sample? _____ and _____

Take the survey by clicking on the computer.

3. Go to the “Firearms & Tool Marks” section and choose “Training Demos” to answer these questions.

A. Parts of a Gun

Where do you find rifling on a gun? _____

What is found in the magazine? _____

B. Part of a Cartridge

What produces the spark to ignite the gunpowder? _____

What measurement is used to determine the caliber? _____

C. Bullet Characteristics

What term refers to tiny, microscopic scratches on the surface of a bullet? _____

What is a rifling impression? _____

Firing Range - Answer the questions by “shooting” the correct answers. What was your score? _____

Evidence Analysis

What is the caliber of the bullet? _____ What kind of rifling is on the bullet? _____

What is its rifling number? _____ What type of gun was used to shoot this bullet? _____

Which suspect’s gun was used to shoot the bullet? _____

4. Choose the “Medical Examiner” section to answer these questions.

What is the first thing an examiner does when a person arrives for autopsy? _____

Try the autopsy and follow the directions to complete it.

What was the cause of death in this case? _____

What percentage of deaths is accidental? _____% What percentage is due to homicide? _____%

What was the manner of death for each case?

#6877 _____ #11989 _____ #23380 _____

#4775 _____ #94575 _____

5. Choose the “CSI Ethics” section to answer these questions.

Forensic scientists must be _____, _____, _____, and _____.

Answer the questions to finish this section.

**Ready for a challenge? Return to the home page and try
Case Two: The Burning Star to put your CSI skills to the test.**